

Figure 1 (Prior Art)

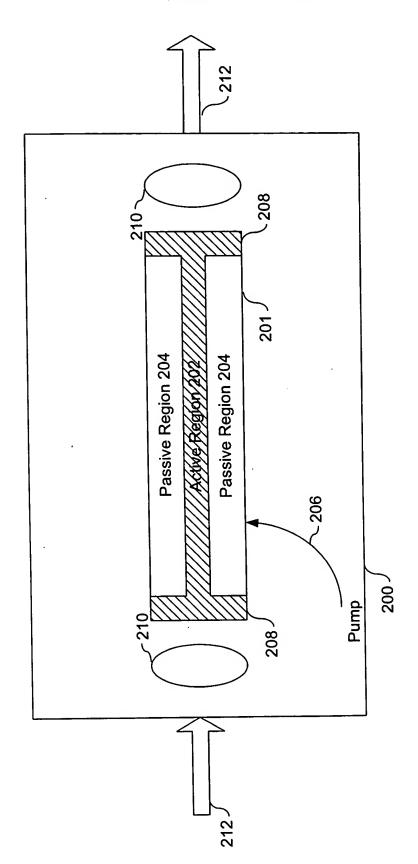
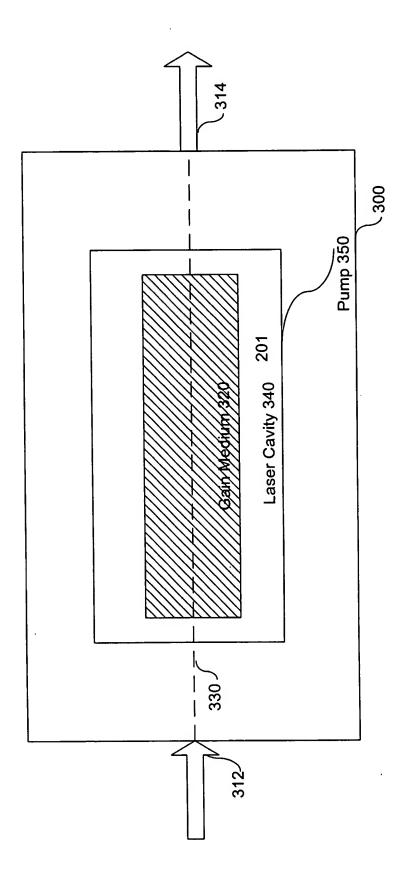


Figure 2 (Prior Art)



Tide. Lasing Semiconductor Optical Ampliner Without Power Monitor and Control Inventors: Sol P. DiJaili & Jeffrey D. Walker

Atty. Docket No.: 21153-06421

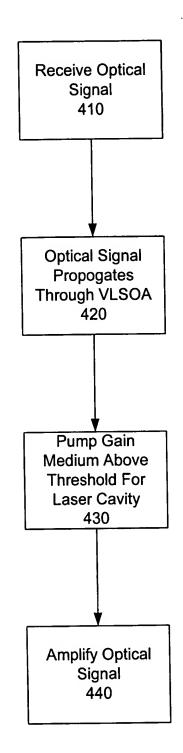


Figure 4

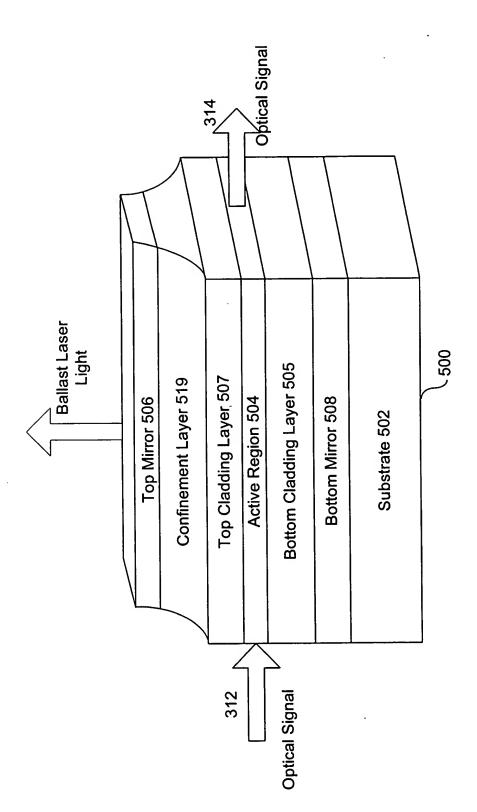


Figure 5A

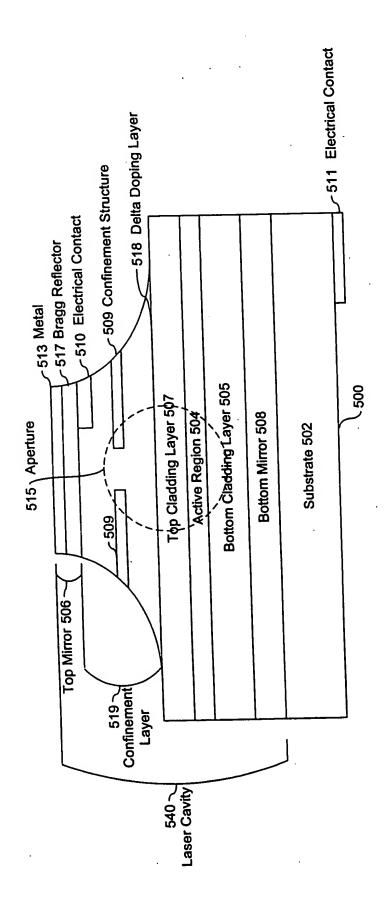


Figure 5B

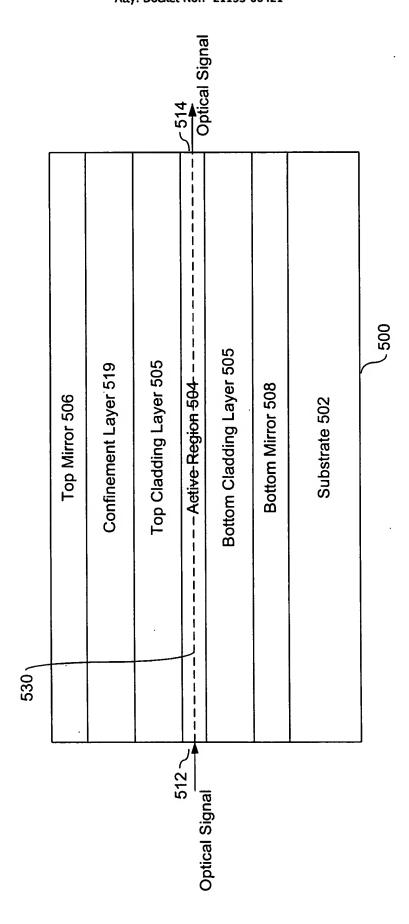
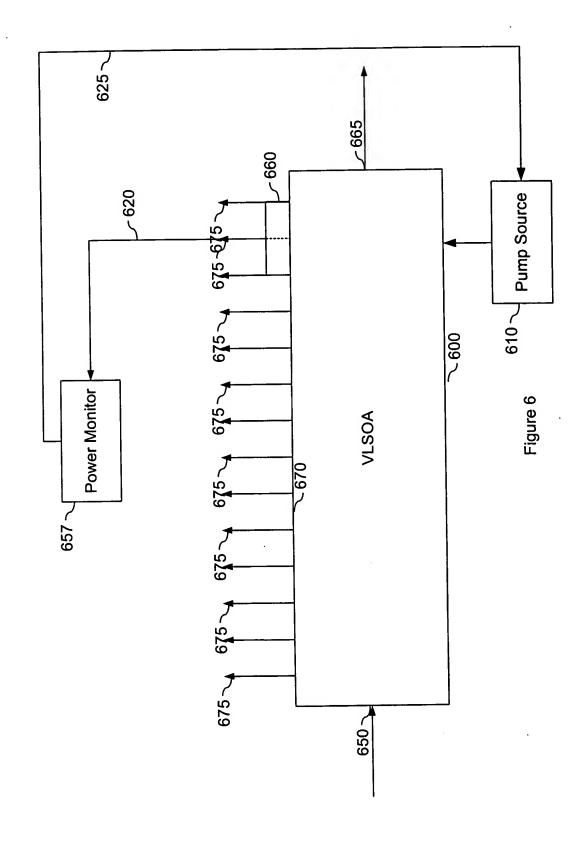


Figure 5C



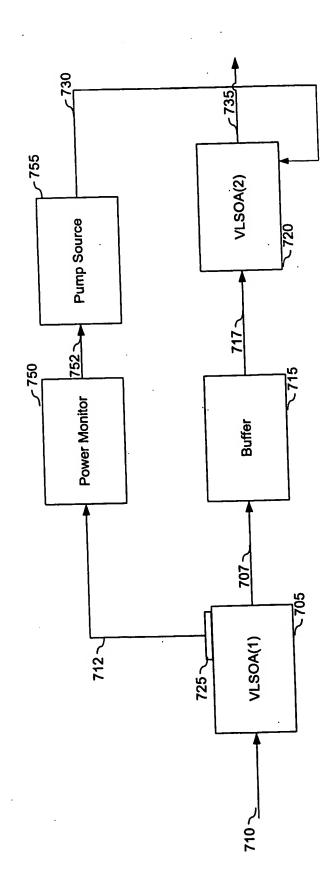
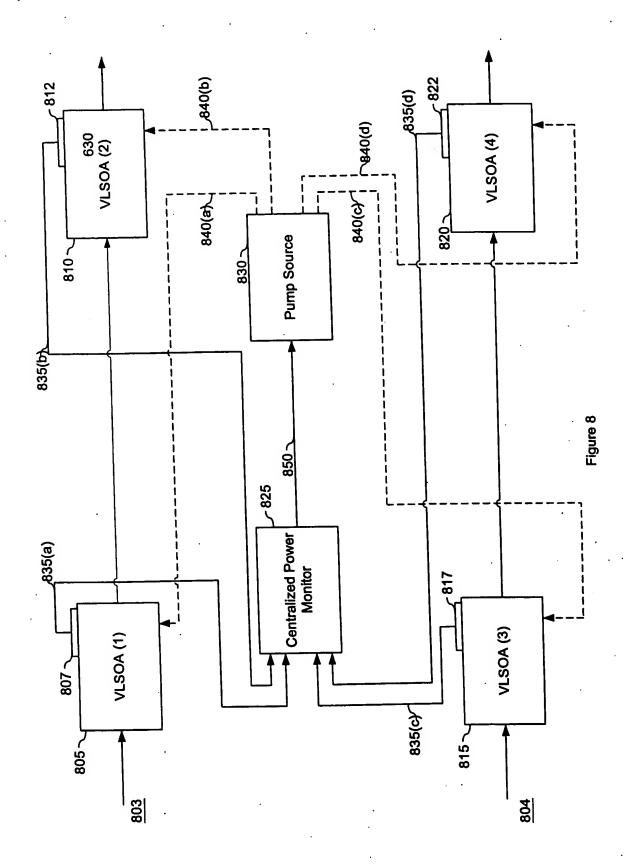


Figure 7



Title: Lasing Semiconductor Optical Amelica Without Power Monitor and Con Inventors: Sol P. DiJaili & Jeffrey D. Walker Atty. Docket No.: 21153-06421

Emit a Ballast Laser Signal from a Lasing SOA during Amplification of the Optical 905~ Signal Convert the Ballast Laser 910-Signal to an Electrical Signal Using the Electrical Signal, 915 Determine a Power Output Level on the Lasing SOA In Response to the Power 920 -Output Level, Pump an Active Region within the Lasing SOA at a Particular Rate

Figure 9